



PATENT SPECIFICATION

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Complete Accepted: June 9, 1921.

COMPLETE SPECIFICATION.

Improvements in the Construction of Arms for Models for Exhibition Purposes.

I, PIERRE IMANS, of 10, rue de Crussol, Paris, France, a citizen of the Republic of France, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to a method of constructing arms having the appearance of live flesh for models such as are usually used in shops for the display of clothes.

Arms of this kind made of wax are known and possess the great disadvantage of being fragile so that the hands and particularly the fingers often get broken during the manipulation or dressing of the model. The inventor has already proposed to replace the wax by a composition having a gelatine and glycerine base which has the advantage of being flexible so that the arm is practically unbreakable. Up to the present time these arms of flexible material have been solid and provided with a central frame of wood or other material.

This method of manufacture has the great disadvantage that the arm thus made is very heavy, so that it cannot be used with busts of the usual type in which the arm is secured to a part fitted into the wax shoulder of the model.

When the temperature becomes raised a little, the wax of the shoulder melts or softens and the arm breaks away from the shoulder on account of its weight.

The present invention has for its object a method of constructing the arms by means of which this disadvantage is completely removed.

The arm obtained according to the invention is light, and unbreakable, and has the further advantage of being less costly since the quantity of plastic

material employed in its manufacture is considerably reduced. 45

According to the invention, the arm is characterised by the combination of a central normally rigid frame, for example, of metallic wire and wood, of a hollow core, of cardboard for example, 50 surrounding the frame and spaced therefrom and supported thereby, and of an outer layer of flexible composition having a gelatine base, moulded on the said core.

To enable the invention to be fully understood it will now be described by reference to the accompanying drawing in which:— 55

Fig. 1 is a part sectional view of an arm constructed according to one form of the invention; 60

Fig. 2 is a cross section on line 2—2, Fig. 1, drawn to a larger scale;

Fig. 3 is a view in elevation of a several piece mould which may be used for moulding the arm; 65

Fig. 4 is a plan view of the mould.

The arm as shown comprises a normally rigid internal frame formed of two cylindrical wooden rods *a, b* connected together 70 by two twisted metallic wires *c*. The rod *b* carries at its end two similar metallic wires *d* which form the frame of the wrist. The rod *a* carries at its end a gudgeon pin *f* which enables the arm to be fastened by means of a bayonet joint 75 to a piece countersunk in the wax of the shoulder of the bust.

Surrounding the frame thus formed is a hollow core, which in the example illustrated is formed of the two parts *g, h* 80 surrounding the two rods *a, b* for almost their complete length. Each part *g, h* of the core is formed of sheets of cardboard glued or otherwise secured together and 85 supported on the rods *a, b* by metallic

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wires *i* which also serve to keep the inner side of this core at the desired distance from the central rods *a*, *b*. The arm is completed by an outer layer *m* which may be about 1 centimetre thick formed of a flexible paste consisting of a composition having a gelatine base. This composition may, for example, consist of the following proportions:—

10	Gelatine - - - -	30 grammes.
	Glycerine - - - -	40 „
	Distilled water - - -	30 „
	Powdered oxide of zinc -	50 „

To tint this paste, crushed powdered colours may be added to the water. It can be melted on a water bath.

The hollow core and central frame having been made and the paste prepared as described above, the core is placed in a several piece mould such as is shewn in Figs. 3 and 4, comprising for example the pieces *n*, *o*, *p*, *q*, *r*, *s*.

The paste is run into the mould through the opening *t* and adheres to the core and covers it.

The core is held in the mould by the rod *a*, the part *a*¹ of which fits exactly in the mould. After the paste has set, the article is removed from the mould and the seams existing are removed by a razor or other very sharp tool and are smoothed down by glass paper. The making up or decoration of the hand and the parts representing the finger nails may be made by means of the liquid colours already commercially known. After drying the colours are fixed with formalin which allows subsequent washing with alcohol without altering the colours.

The invention, naturally, is not limited

to the details of execution illustrated and described. In particular, the frame and the core may be made of any suitable material and the fastening of the arm to the bust may be effected in any desired manner. It will be preferable to fit the arm exactly to the shoulder of the bust to avoid any break in continuity, apparent in the usual busts with wax shoulders.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

1. An arm for models of the kind described, comprising a central normally rigid frame to which is secured one or more hollow cores of suitable light weight material, said core or cores surrounding the frame but being spaced therefrom, and an outer layer of flexible plastic composition having a gelatine base, moulded or cast upon said core or cores.

2. An arm for models according to Claim 1, in which the central normally rigid frame consists of wooden rods and metallic wires, the hollow core or cores being formed of cardboard and metallic wires, the outer layer consisting of a flexible plastic composition having a gelatine and glycerine base.

3. An arm for models, constructed substantially as hereinbefore described and illustrated in the accompanying drawing.

Dated this 29th day of September, 1920.

ABEL & IMRAY,
30, Southampton Buildings, London,
W.C. 2,
Agents for the Applicant.

[This Drawing is a full-size reproduction of the Original]

Fig

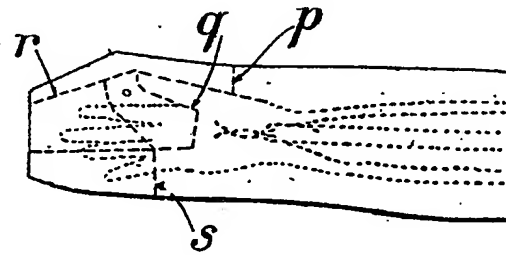


Fig. 2

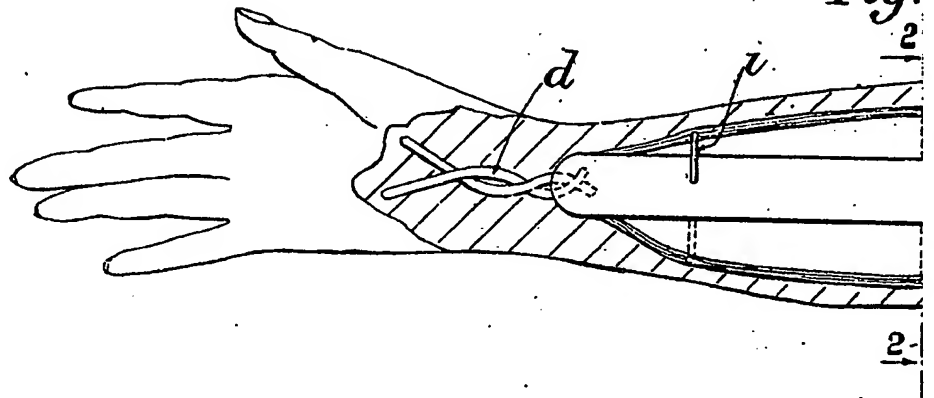
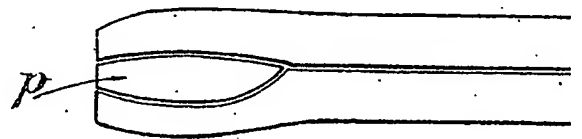


Fig.



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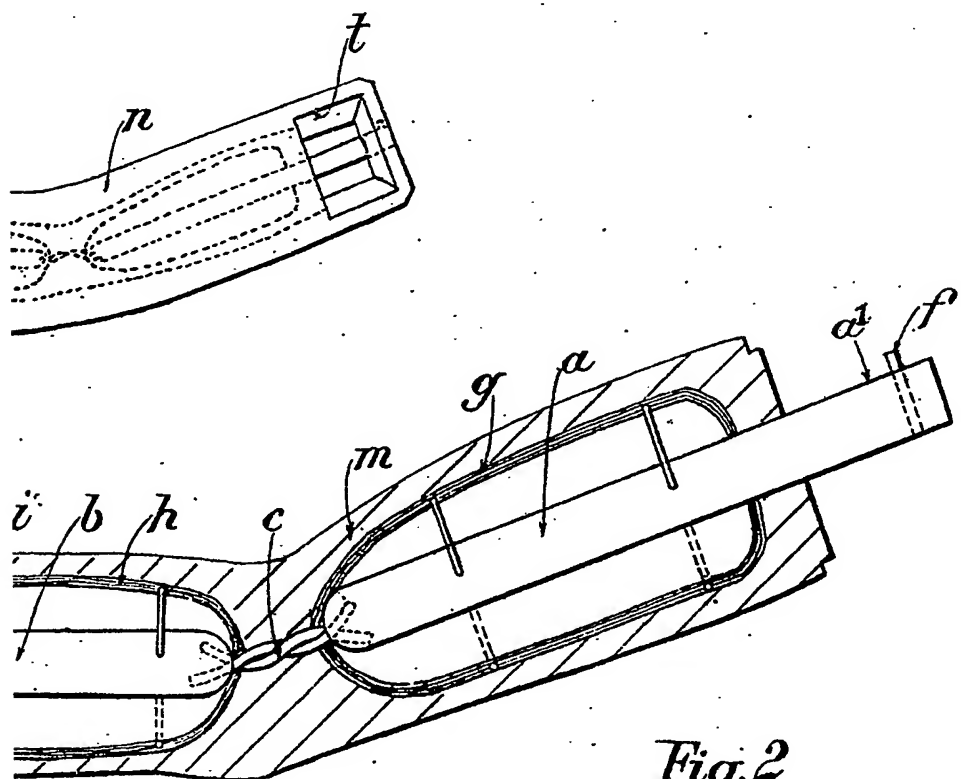
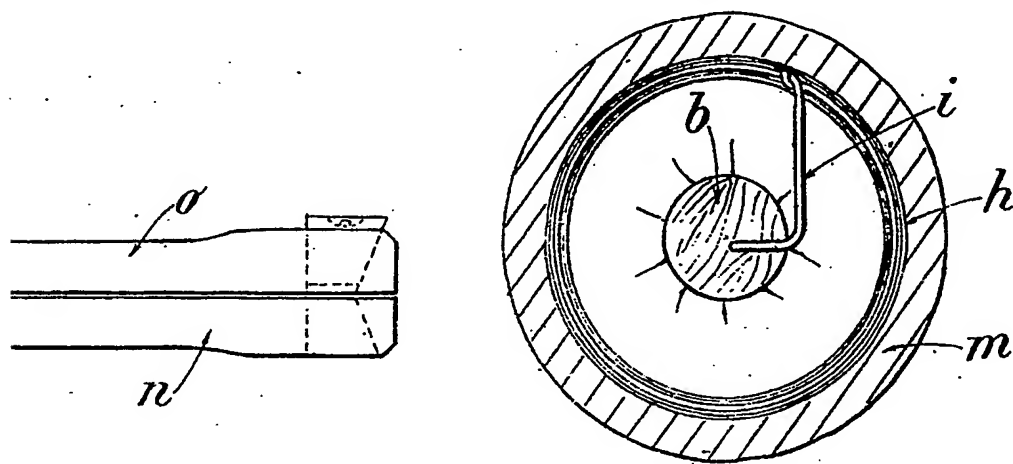


Fig. 2



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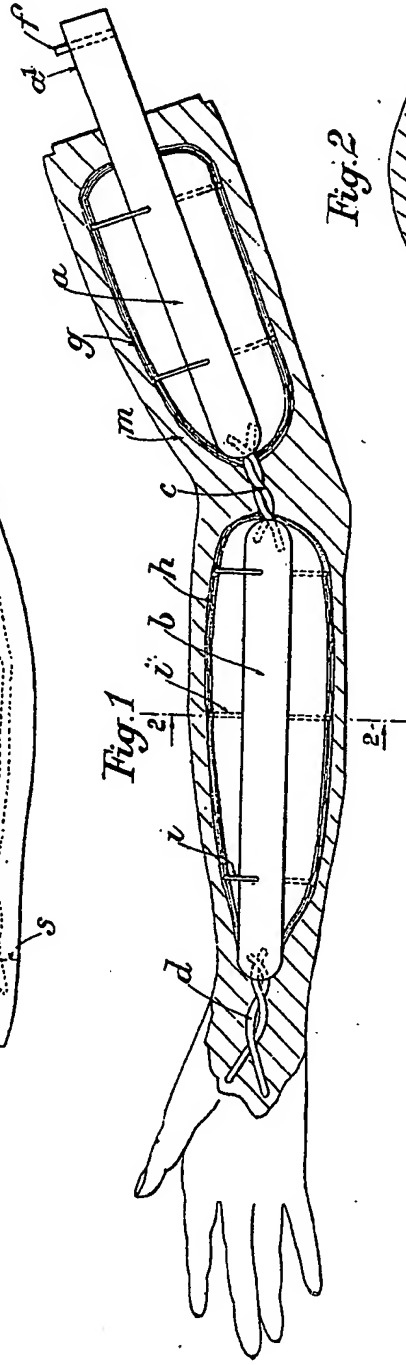
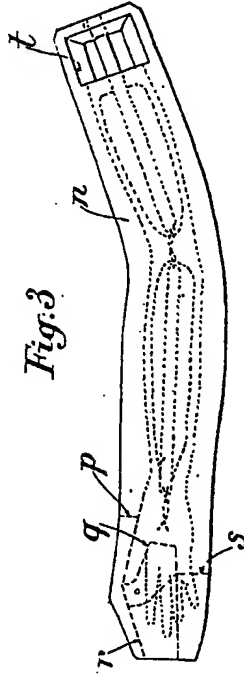


Fig. 2

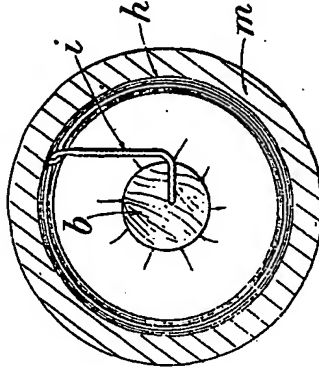
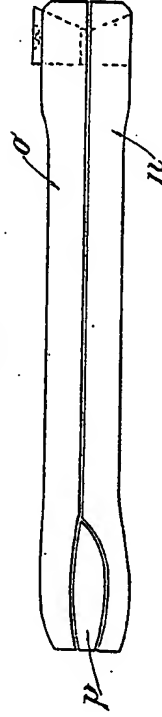


Fig. 4



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